

Title (en)
POLYETHYLENE COMPOSITION HAVING HIGH IMPACT AND STRESS CRACKING RESISTANCE

Title (de)
POLYETHYLENZUSAMMENSETZUNG MIT HOHER SCHLAG- UND SPANNUNGSRISSBESTÄNDIGKEIT

Title (fr)
COMPOSITION DE POLYÉTHYLÈNE PRÉSENTANT UNE HAUTE RÉSISTANCE À LA FISSURATION SOUS CONTRAINTE ET AUX IMPACTS

Publication
EP 3013898 B2 20200101 (EN)

Application
EP 14731278 A 20140619

Priority

- EP 13173536 A 20130625
- EP 2014062923 W 20140619
- EP 14731278 A 20140619

Abstract (en)
[origin: EP2818508A1] Polyethylene composition with improved balance of impact resistance at low temperatures and Environmental Stress Cracking Resistance (ESCR), particularly suited for producing protective coatings on metal pipes, said composition having the following features: 1. density from 0.938 to 0.948 g/cm³; 2. ratio MIF/MIP from 15 to 25; 3. MIF from 30 to 45 g/10 min.; 4. Mz equal to or greater than 1000000 g/mol; 5. LCBI equal to or greater than 0.55.

IPC 8 full level
C08F 210/16 (2006.01); **C08F 2/00** (2006.01)

CPC (source: EP RU US)
C08F 210/16 (2013.01 - EP US); **C08L 23/06** (2013.01 - EP RU US); **C08L 23/0815** (2013.01 - EP RU US); **C09D 123/06** (2013.01 - RU US); **C09D 123/0815** (2013.01 - RU US); **C08L 2205/025** (2013.01 - EP US); **C08L 2308/00** (2013.01 - EP US); **C08L 2314/02** (2013.01 - EP US)

C-Set (source: EP US)
EP
1. **C08L 23/06** + **C08L 23/0815** + **C08L 2314/02**
2. **C08F 210/16** + **C08F 2/001**
3. **C08F 210/16** + **C08F 210/14** + **C08F 2500/12** + **C08F 2500/04** + **C08F 2500/09** + **C08F 2500/17** + **C08F 2500/13** + **C08F 2500/27** + **C08F 2500/31**
US
1. **C08L 23/06** + **C08L 23/0815** + **C08L 2314/02**
2. **C08F 210/16** + **C08F 2/001**
3. **C08F 210/16** + **C08F 210/14** + **C08F 2500/12** + **C08F 2500/04** + **C08F 2500/09** + **C08F 2500/17** + **C08F 2500/13**

Cited by
EP3037471B1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2818508 A1 20141231; BR 112015031267 A2 20170725; BR 112015031267 B1 20201229; CA 2916132 A1 20141231; CA 2916132 C 20170103; CN 105392836 A 20160309; CN 105392836 B 20170412; EP 3013898 A1 20160504; EP 3013898 B1 20170315; EP 3013898 B2 20200101; ES 2625385 T3 20170719; ES 2625385 T5 20200715; JP 2016523287 A 20160808; JP 6058829 B2 20170111; KR 101667905 B1 20161019; KR 20160032113 A 20160323; MX 2015017325 A 20160406; PL 3013898 T3 20171031; PL 3013898 T5 20200713; RU 2016101014 A 20170728; RU 2654700 C2 20180522; SA 515370282 B1 20170501; US 2016152853 A1 20160602; US 2017321076 A1 20171109; US 9732248 B2 20170815; US 9969898 B2 20180515; WO 2014206853 A1 20141231

DOCDB simple family (application)
EP 13173536 A 20130625; BR 112015031267 A 20140619; CA 2916132 A 20140619; CN 201480034737 A 20140619; EP 14731278 A 20140619; EP 2014062923 W 20140619; ES 14731278 T 20140619; JP 2015563107 A 20140619; KR 20167001301 A 20140619; MX 2015017325 A 20140619; PL 14731278 T 20140619; RU 2016101014 A 20140619; SA 515370282 A 20151215; US 201414900996 A 20140619; US 201715660653 A 20170726